

# VeraSol Standardized Specifications Book

**Manufacturer:** Cello

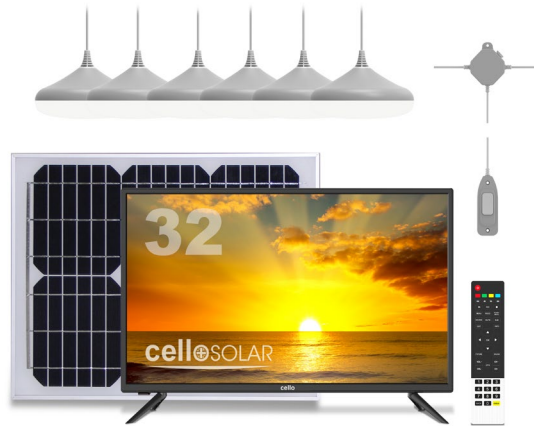
**Component Family Name:** Cello Solar TV Family

**Date of Standardized Specifications**  
**Book Expiration:** March 31, 2023

**Verify Online:** <https://data.verasol.org/products/sek/cello-stvfamily>

**Contact Information:** [klaus@celloelectronics.com](mailto:klaus@celloelectronics.com)

**Website:** [www.celloelectronics.com](http://www.celloelectronics.com)



This VeraSol Standardized Specifications Book presents a **Component-level Standardized Specifications Sheet** listing the available components in the product family by component type, each individual component's performance rating, and performance results for each component tested according to the Edition 4 of IEC 62257-9-5. Following the component-level Standardized Specifications Sheet is a **list of the systems** covered by this Specifications Book that use combinations of these components.

**NOTICE:** Systems or kits developed using components from the component family will each perform differently and have not all been evaluated on a system-level basis. All systems listed in this Specifications Book are regarded to have passed the applicable Lighting Global Quality Standards or to meet the requirements in IEC 62257-9-8\*.

**Quality Standards Framework Version:** 2021

**Revision:** 2021.08

# Component-Level Standardized Specifications Sheet

Cello

Cello Solar TV Family

## Battery / Control Box

Name / Model Number	Battery Chemistry	Nominal Voltage (V)	Battery Capacity Rating (Ah)	Measured Battery Capacity (Ah)
24" TV	Lithium iron phosphate	12.8	9.6	10
32" TV	Lithium iron phosphate	12.8	9.6	10.1
43" TV	Lithium iron phosphate	12.8	9.6	10.1

## PV Module

Name / Model Number	Peak Power at STC Rating (W)	Measured Peak Power at STC (W)
40 W Solar Module	40	40
50 W Solar Module	50	51

## Light Sources\*

Name / Model Number	Luminous Flux Rating (lm)	Measured Luminous Flux (lm)	Measured Lamp Efficacy (lm/W)
	High mode	High mode	High mode
Hanging Lamp	145	140	160
Power Saving Solar Light	200	220	150
Curie Light Point	--	210	160
Maxi Solar Light	170	150	140

## Appliances\*

Name / Model Number	Description	Rated Power (W)	Measured Power During Use (W)	Rated Battery Capacity (Ah)	Measured Battery Capacity (Ah)
Integrated 24" Television	24" diagonal TV on Daytime Mode	--	13	9.6	10
Integrated 32" Television	32" diagonal TV on Daytime Mode	--	15	9.6	10.1
Integrated 43" Television	43" diagonal TV on Daytime Mode	--	26	9.6	10.1

**NOTICE:** As indicated, not all components listed on this page were tested according to the Quality Test Method (QTM) in Edition 4 of IEC 62257-9-5. However, based on the satisfactory performance of the tested components in the family, the components that were not tested are regarded to have passed the applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8. In addition, all tested components passed an internal inspection, the full array of applicable QTM durability tests, as well as ingress protection testing (where applicable).

\*Light points and appliances may perform differently when used with different systems.

# List of Covered Systems

Cello

Cello Solar TV Family

System Name	40 W PV	50 W PV	Hanging Lamp	Power Saving Solar Light	Curie Light Point	Maxi Solar Light	24" TV with 9.9 Ah Battery	32" TV with 9.9 Ah Battery	43" TV with 9.9 Ah Battery
Solar Television System 32" **	1	--	6	--	--	--	--	1	--
Solar Television System 24"	--	1	6	--	--	--	1	--	--
Solar Television System 32" - Curie	1	--	--	--	6	--	--	1	--
Solar Television System 32" - Power Saving	1	--	--	6	--	--	--	1	--
Solar Television System 43"	--	1	--	--	--	6	--	--	6

\*\*Tested as full systems. Individual SSS available on VeraSol website.

## **NOTICE:**

Only the Solar Television System 32" was fully tested as a system according to Edition 4 of IEC 62257-9-5. Individual Standardized Specifications Sheets (SSS) that report system-level performance are available for the Solar Television System 32" at <https://data.verasol.org/products/sek/cello-stv32> Systems that were not tested, but that were developed using components from the component family will perform differently than the system(s) shown in the individual system-level SSS. All systems listed above are regarded to have passed the applicable Lighting Global Quality Standards or the requirements in IEC 62257-9-8.

Additionally, when the Solar Television System 32" kit was submitted for testing, it was tested as the OOLU Solar TV 32".

Unless otherwise noted, the following information applies to all listed systems and components:

## **Warranty Information**

The product provides a 2-year warranty

# Available Daily Electrical Energy and Port Information

Cello

Cello Solar TV Family

System Name	Available Daily Electrical Energy (Wh/day)	Includes ports for charging?
<b>Solar Television System 32" **</b>	150	yes

\*\*Tested as full systems. Individual SSS available on VeraSol website.

## **NOTICE:**

The available daily electrical energy (Wh/day) is calculated for fully tested systems following the energy service calculations as described in IEC/TS 62257-9-5 Ed. 4. For products in a family that are not tested as a full system, estimations of available daily electrical energy (Wh/day) are calculated according to an alternative method using data from the test reports of fully-tested products and components. Estimating Wh/day values requires making assumptions about system efficiencies, power consumption, and user behavior. As with any calculation based on multiple assumptions, there is some degree of error in the Wh/day estimate, which may be greater or less than the actual value for a given product.